

What is claimed is:

1. A seal with integrated sealing and rotation measuring capabilities adapted to be installed on the wheel support bearing assembly on an automotive vehicle that comprises a rotational bearing element and a non-rotational bearing element rotating relative to each other, for providing rotation detection capability for detecting the number of revolutions as well as sealing capability for sealing the wheel support bearing assembly, including:

a first slinger having an L-shape cross section and adapted to be secured to the rotational bearing element, said first slinger including a first cylindrical portion extending axially and a first flanged portion extending radially from said first cylindrical portion;

a seal ring arranged axially inward from said first slinger and adapted to be secured to the non-rotational bearing element, said seal ring including an elastic seal lip having its tip adapted to make sliding contact with the side of said first slinger facing opposite to said seal ring;

a second slinger having an L-shape cross section arranged axially inward from said seal ring and adapted to be secured to the rotational bearing element, said second slinger including a second cylindrical portion extending axially and a second flanged portion extending radially from said second cylindrical portion;

said first slinger and said second slinger are secured to the rotational bearing element in such a way that said first cylindrical portion in said first slinger is secured to the rotational bearing element, with said second cylindrical portion in said second slinger being secured to the rotational bearing element and/or to said first cylindrical portion in said first slinger, or said second cylindrical portion in said second slinger is secured to the rotational bearing element, with said first cylindrical portion in said first slinger being secured to the rotational bearing element and/or to said second

cylindrical portion in said second slinger;

an encoder operated for generating pulses and arranged on said second flanged portion in said second slinger; and

a sensor arranged to face opposite to said encoder and operated to respond to the pulses from said encoder.

2. The seal with integrated sealing and rotation measuring capabilities as defined in Claim 1, wherein said first cylindrical portion in said first slinger and said second cylindrical portion in said second slinger are joined together by fitting one into or around the other.

3. The seal with integrated sealing and rotation measuring capabilities as defined in Claim 1 or 2, wherein said seal ring includes a further elastic seal lip having its tip adapted to make sliding contact with the side of said second cylindrical portion in said second slinger facing opposite to said seal ring.